

## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1           1. (currently amended) A hearing aid ~~with~~ comprising a microphone system (1) and  
2 a subsequent analog/digital converter (5), wherein the microphone system (1) is encapsulated  
3 in an electromagnetic shielding case (3) forming a shielded microphone system unit, and  
4 further wherein the analog/digital converter (5) is mounted on an ~~outside~~ outer surface of the  
5 electromagnetic shielding case (3).

1           2. (currently amended) The hearing aid as claimed in claim 1, wherein the  
2 analog/digital converter (5) is encapsulated in a converter shielding case (7a, 7b) and is  
3 mounted to said outer surface via said converter shielding case which is set to the electrical  
4 potential of the electromagnetic shielding case (3) of the microphone system.

1           3. (currently amended) The hearing aid as claimed in  
2 claim 1, wherein the microphone system (1) and the analog/digital converter (5) are  
3 detachable combined in a modular manner.

1           4. (canceled).

1           5. (Currently amended) The hearing aid as claimed in  
2 claim 2, wherein the microphone system (1) and the analog/digital converter (5) are  
3 detachable combined in modular manner.

1           6. (currently amended) The hearing aid as claimed in claim 1 ~~2~~, wherein said  
2 analog/digital converter comprises first and second analog inputs ( $E_1$ ,  $E_2$ ), said first analog  
3 input ( $E_1$ ) having a first input impedance ( $Z_1$ ) and a first input gain ( $G_1$ ), said second analog  
4 input ( $E_2$ ) having a second input impedance ( $Z_2$ ) and a second input gain ( $G_2$ ), and wherein  
5 either at least one of said first and second input impedances ( $Z_1$ ,  $Z_2$ ) and of said first and  
6 second input gains are respectively different from one another ~~or said first and second input~~  
7 ~~gains ( $G_1$ ,  $G_2$ ) are different from one another.~~

7. (canceled).

1        8. (currently amended) A hearing aid comprising:  
2        a microphone;  
3        an electromagnetic shielding case for encapsulating said microphone; and  
4        an analog/digital converter mounted on an ~~outside~~ outer surface of said  
5        electromagnetic shielding case and  
6        electromagnetically shielded from said microphone.

1        9. (previously presented) A hearing aid comprising:  
2        a microphone;  
3        an electromagnetic shielding case for encapsulating said microphone; and  
4        an analog/digital converter mounted in such a manner that it is electromagnetically  
5        shielded from said microphone.

1        10. (new) The hearing aid as claimed in claim 9, wherein said analog/digital  
2        converter is fixed to a flexible sheet coated with a conducting path of the digital output of  
3        said converter.

1        11.     (Canceled).

1        12. (new) The hearing aid of claim 9, wherein an analog output of said microphone  
2        system is led through said shielding case of said microphone system towards said flexible  
3        sheet.

1        13. (new) A microphone system with a size for applying  
2        in a hearing aid comprising:  
3        a microphone system encapsulated in an electromagnetic shielding case; and  
4        an analog/digital converter mounted on an outer surface of said electromagnetic  
5        shielding case.

1        14. (new) The system of claim 13, wherein said analog/digital converter is mounted  
2        on said outer surface via an electromagnetic shielding case of said analog/digital converter.

1           15. (new) The system of claim 13, wherein said analog/digital converter is fixed to a  
2 flexible sheet having a conducting path connected to the digital output of said converter, said  
3 sheet with said converter being encapsulated in an electromagnetic shielding case mounted to  
4 said outer surface.

1           16. (new) The system of claim 13, further comprising an electrical connection from  
2 an output of said microphone through said shielding case of said microphone to said flexible  
3 sheet.

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If there are any additional fees resulting from this communication, please charge same to our Deposit Account No. 16-0820, our Order No. 32396.

Respectfully submitted,

PEARNE & GORDON, LLP

By: 

Robert F. Bodi, Reg. No. 48540

1801 East 9<sup>th</sup> Street  
Suite 1200  
Cleveland, Ohio 44114-3108  
(216) 579-1700

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